

# Abbreviations

<b>1G</b>	First Generation	<b>AESA</b>	ATM End System Address
<b>2G</b>	Second Generation	<b>AFI</b>	Authority and Format Identifier
<b>3G</b>	Third Generation	<b>AINI</b>	ATM Inter-Network Interface
<b>3GPP</b>	Third Generation Partnership Project	<b>AIS</b>	Alarm Indication Signal
<b>AAL</b>	ATM Adaptation Layer	<b>ALCAP</b>	Access Link Control Application Part
<b>AAL1</b>	ATM Adaptation Layer 1	<b>AMI</b>	Alternate Mark Inversion
<b>AAL2</b>	ATM Adaptation Layer 2	<b>AN</b>	Access Network
<b>AAL3/4</b>	ATM Adaptation Layer 3/4	<b>ANS</b>	ATM Name System
<b>AAL5</b>	ATM Adaptation Layer 5	<b>ANSI</b>	American National Standards Institute
<b>ABR</b>	Available Bit Rate/Area Border Router	<b>API</b>	Application Programming Interface
<b>ACAC</b>	Actual Connection Admission Control	<b>APS</b>	ATM Protection Switching
<b>ACR</b>	Allowed Cell Rate	<b>ARP</b>	Address Resolution Protocol
<b>ADR</b>	Average Data Rate	<b>AS</b>	Autonomous System
<b>ADSL</b>	Asymmetric DSL	<b>ATM</b>	Asynchronous Transfer Mode
<b>ADT</b>	Assured Data Transfer	<b>ATMARP</b>	ATM Address Resolution Protocol
<b>ADTF</b>	ACR Decrease Time Factor	<b>ATU-C</b>	ADSL Terminal Unit for the Central Office
<b>ADTR</b>	ACR Decrease Time Rate	<b>ATU-R</b>	ADSL Terminal Unit for the Remote site
<b>AES</b>	Advanced Encryption Standard	<b>AuC</b>	Authentication Centre

## Abbreviations

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<b>AvCR</b>	Available Cell Rate	<b>CBR</b>	Constant Bit Rate
<b>AW</b>	Administrative Weight	<b>CC</b>	Country Code
<b>BAsize</b>	Buffer Allocation size	<b>CCITT</b>	Consultative Committee on International Telegraph and Telephony
<b>BD</b>	Burst Duration	<b>CCR</b>	Current Cell Rate
<b>BECN</b>	Backward Explicit Congestion Notification	<b>CCS</b>	Common Channel Signalling
<b>BER</b>	Bit Error Rate/Bit Error Ratio	<b>CDF</b>	Cut-off Decrease Factor
<b>BGP</b>	Border Gateway Protocol	<b>CDM</b>	Code Division Multiplexing
<b>BGT</b>	Broadcast and Group Translator	<b>CDMA</b>	Code Division Multiple Access
<b>BICI</b>	Broadband Inter-Carrier Interface	<b>CDV</b>	Cell Delay Variation
<b>B-ICI</b>	BISDN Inter-Carrier Interface	<b>CDVT</b>	Cell Delay Variation Tolerance
<b>BIP</b>	Bit Interleaved Parity	<b>CER</b>	Cell Error Ratio
<b>B-ISDN</b>	Broadband Integrated Services Digital Network	<b>CES</b>	Circuit Emulation Service
<b>BLER</b>	Block Error Rate/Block Error Ratio	<b>CID</b>	Channel Identifier
<b>BLER</b>	Block Error Result	<b>CLEC</b>	Competitive Local Exchange Carriers
<b>B-NT1</b>	Network Termination 1 for B-ISDN	<b>CLIP</b>	Calling Line Identification Presentation
<b>B-NT2</b>	Network Termination 2 for B-ISDN	<b>CLIR</b>	Calling Line Identification Restriction
<b>BOM</b>	Beginning of Message	<b>CLP</b>	Cell Loss Priority
<b>BPS</b>	Bits Per Second	<b>CLR</b>	Cell Loss Ratio
<b>BR</b>	Backward Reporting	<b>CMIP</b>	Common Management Information Protocol
<b>BRI</b>	Basic Rate Interface	<b>CMR</b>	Cell Mis-insertion Ratio
<b>BSC</b>	Base Station Controller	<b>CN</b>	Core Network
<b>BSI</b>	British Standards Institute	<b>CNM</b>	Customer Network Management
<b>BSS</b>	Base Station Sub-system	<b>COLP</b>	Connected Line Identification Presentation
<b>BT</b>	Burst Tolerance	<b>COLR</b>	Connected Line Identification Restriction
<b>B-TA</b>	Terminal Adapter for B-ISDN	<b>COM</b>	Continuation of message
<b>B-TE1</b>	Terminal Equipment 1 for B-ISDN	<b>CPCS</b>	Common Part Convergence Sub-layer
<b>B-TE2</b>	Terminal Equipment 2 for B-ISDN	<b>CPCS-UU</b>	CPCS User-to-User Indication
<b>BTS</b>	Base Transceiver Station	<b>CPE</b>	Customer Premises Equipment
<b>BUS</b>	Broadcast and Unknown Server		
<b>CAC</b>	Connection Admission Control		
<b>CAM</b>	Content Addressable Memory		
<b>CAS</b>	Channel Associated Signalling		

<b>CPI</b>	Common Part Indicator	<b>DTE</b>	Digital Terminal Equipment
<b>CPN</b>	Customer Premises Network	<b>DTL</b>	Designated Transit List
<b>CPS</b>	Common Part Sub-layer	<b>DTMF</b>	Dual Tone Multiple Frequency
<b>CRC</b>	Cyclic Redundancy Check	<b>DWDM</b>	Dense Wavelength Division Multiplexing
<b>CRM</b>	Cell Rate Margin	<b>DXI</b>	Data Exchange Interface
<b>CRM</b>	RM-Cells before Cut-off	<b>ECF</b>	Establish Confirm
<b>CRV</b>	Call Reference Value	<b>EDGE</b>	Enhanced Data Rates for Global Evolution
<b>CS</b>	Circuit Switched/Convergence Sub-layer	<b>EFCI</b>	Explicit Forward Congestion Indication
<b>CSI</b>	Convergence Sub-layer Indication	<b>EIA</b>	Electronic Industries Association
<b>CSMA</b>	Carrier Sense Multiple Access	<b>EIR</b>	Equipment Identity Register
<b>CSMA/CD</b>	Carrier Sense Multiple Access with Collision Detection	<b>ELAN</b>	Emulated LAN
<b>CSU</b>	Channel Service Unit	<b>EM</b>	Element Manager/Error Monitoring
<b>CTD</b>	Cell Transfer Delay	<b>EOM</b>	End of Message
<b>DBCES</b>	Dynamic Bandwidth Circuit Emulation Service	<b>EPD</b>	Early Packet Discard
<b>DBU</b>	Dynamic Bandwidth Utilization	<b>ER</b>	Explicit Rate
<b>DCC</b>	Data Country Code	<b>ERQ</b>	Establish Request
<b>DCE</b>	Data Circuit-Terminating Equipment	<b>ESF</b>	Extended Superframe
<b>DES</b>	Data Encryption Standard	<b>ERV</b>	End-point Reference Value
<b>DFA</b>	DXI Frame Address	<b>ESI</b>	End System Identifier
<b>Diffserv</b>	Differentiated Services	<b>ETSI</b>	European Telecommunications Standards Institute
<b>DIR</b>	Direction	<b>FA</b>	Frame Alignment
<b>DLCI</b>	Data Link Connection Identifier	<b>FAST</b>	Frame-based ATM over SONET/SDH Transport
<b>DLL</b>	Data Link Layer	<b>FATE</b>	Frame-based ATM Transport over Ethernet
<b>DLPI</b>	Data Link Provider Interface	<b>FAX</b>	Facsimile
<b>DNS</b>	Domain Name System	<b>FCAPS</b>	Fault, Configuration, Accounting, Performance and Security management.
<b>DSAID</b>	Destination Signalling Association Identifier	<b>FCS</b>	Frame Check Sequence
<b>DSL</b>	Digital Subscriber Line	<b>FDDI</b>	Fiber Distributed Data Interface
<b>DSLAM</b>	DSL Access Multiplexer		
<b>DSP</b>	Domain Specific Part		
<b>DSS</b>	Dynamic Structure Sizing		
<b>DSU</b>	Data Service Unit		

## Abbreviations

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<b>FDM</b>	Frequency Division Multiplex	<b>HO-DSP</b>	High-Order Domain Specific Part
<b>FDMA</b>	Frequency Division Multiple Access	<b>HOL</b>	Head-of-Line
<b>FEBE</b>	Far End Block Error	<b>HSSI</b>	High Speed Serial Interface
<b>FEC</b>	Forward Error Correction/ Forwarding Equivalence Class	<b>HTTP</b>	Hyper Text Transfer Protocol
<b>FECN</b>	Forward Explicit Congestion Notification	<b>HW</b>	Hardware
<b>FERF</b>	Far End Reporting Failure	<b>IAD</b>	Integrated Access Device
<b>FIFO</b>	First-in-First-out	<b>ICD</b>	International Code Designator
<b>FM</b>	Fault Management	<b>ICIP</b>	Inter-Carrier Interface Protocol
<b>FPM</b>	Forward Performance Monitoring	<b>ICIP_CLS</b>	ICIP Connectionless Service
<b>FRS</b>	Frame Relay Service	<b>ICR</b>	Initial Cell Rate
<b>FRTT</b>	Fixed Round Trip Time	<b>ID</b>	Identifier
<b>FSM</b>	Finite State Machine	<b>IDI</b>	Initial Domain Identifier
<b>FTP</b>	File Transfer Protocol	<b>IDP</b>	Initial Domain Part
<b>FTTC</b>	Fiber-To-The-Curb	<b>IE</b>	Information Element
<b>FUNI</b>	Frame-based UNI	<b>IEEE</b>	Institute of Electrical and Electronic Engineers
<b>GC</b>	General Purpose Communication Channel	<b>IETF</b>	Internet Engineering Task Force
<b>GCAC</b>	Generic Connection Admission Control	<b>IGRP</b>	Interior Gateway Routing Protocol
<b>GCRA</b>	Generic Cell Rate Algorithm	<b>IISP</b>	Interim Inter-Switch Protocol
<b>GFC</b>	Generic Flow Control	<b>ILEC</b>	Incumbent Local Exchange Carrier
<b>GFR</b>	Guaranteed Frame Rate	<b>ILMI</b>	Integrated Layer Management Interface
<b>GGSN</b>	Gateway GPRS Support Node	<b>IM</b>	Input Module
<b>GMSC</b>	Gateway MSC	<b>IME</b>	Interface Management Entity
<b>GPRS</b>	General Packet Radio Service	<b>IMS</b>	IP Multimedia Sub-system
<b>GSM</b>	Global System for Mobile Communications	<b>INE</b>	Internetworking Network Elements
<b>GTP</b>	GPRS Tunnelling Protocol	<b>IOTA</b>	Identifiers for Organizations for Telecommunications Addressing
<b>HDLC</b>	High-level Data Link Control	<b>IP</b>	Internet Protocol
<b>HDSL</b>	High-Bit-Rate DSL	<b>IPoA</b>	IP over ATM
<b>HEC</b>	Header Error Control/Header Error Check	<b>IPv4</b>	Internet Protocol Version 4
<b>HLR</b>	Home Location Register	<b>IPv6</b>	Internet Protocol Version 6
		<b>IPX</b>	Internetwork Packet Exchange
		<b>ISDN</b>	Integrated Services Digital Network
		<b>ISH</b>	Interworking Specific Header

<b>ISO</b>	International Organization for Standardization	<b>LSR</b>	Label Switching Routers
<b>ITU-T</b>	International Telecommunication Union-Telecommunication Standardization	<b>LUNI</b>	LAN Emulation User Network Interface
<b>IVR</b>	Interactive Voice Recognition	<b>M3UA</b>	MTP3. User Adaptation Layer
<b>IWF</b>	Interworking Function	<b>MA</b>	Maintenance and Adaptation
<b>LAG</b>	Local Address Group	<b>MAC</b>	Message Authentication Code/Medium Access Control
<b>LAN</b>	Local Area Network	<b>MADR</b>	Maximum Allowable Data Rate
<b>LANE</b>	LAN Emulation	<b>MAN</b>	Metropolitan Area Network
<b>LAP-B</b>	Link Access Procedure-Balanced	<b>maxCR</b>	Maximum Cell Rate
<b>LAP-D</b>	Link Access Procedure for D-channel	<b>maxCTD</b>	Maximum Cell Transfer Delay
<b>LCN</b>	Logical Channel Number	<b>MBS</b>	Maximum Burst Size
<b>LCT</b>	Last Conformance Time	<b>MCR</b>	Minimum Cell Rate
<b>LD-CELP</b>	Low Delay Code Excited Linear Prediction	<b>MD5</b>	Message Digest 5
<b>LDP</b>	Label Distribution Protocol	<b>ME</b>	Mobile Equipment
<b>LE-ARP</b>	LAN Emulation Address Resolution Protocol	<b>MFS</b>	Maximum Frame Size
<b>LEC</b>	LAN Emulation Client	<b>MIB</b>	Management Information Base
<b>LECID</b>	LEC Identifier	<b>MID</b>	Multiplexing Identifier
<b>LECS</b>	LAN Emulation Configuration Server	<b>MIPS</b>	Millions of Instructions Per Second
<b>LES</b>	LAN Emulation Server	<b>MOS</b>	Mean Opinion Score
<b>LGN</b>	Logical Group Node	<b>MPC</b>	MPOA Client
<b>LI</b>	Length Indicator/Indication	<b>MPLS</b>	Multi-Protocol Label Switching
<b>LIJ</b>	Leaf Initiated Join	<b>MPOA</b>	Multi-Protocol Over ATM
<b>LIS</b>	Logical IP Sub-network	<b>MPS</b>	MPOA Server
<b>LLC</b>	Logical Link Control	<b>MS</b>	Mobile Station
<b>LMI</b>	Local Management Interface	<b>MSC</b>	Mobile Switching Centre
<b>LNNI</b>	LANE Network Network Interface	<b>MSS</b>	Maximum Segment Size
<b>LOS</b>	Loss of Signal	<b>MTP</b>	Message Transfer Part
<b>LSCES</b>	Low Spread Circuit Emulation Service	<b>MTP3b</b>	Message Transfer Part 3 for broadband
<b>LSP</b>	Label Switched Path	<b>MTU</b>	Maximum Transmission Unit
		<b>NADH</b>	North American Digital Hierarchy
		<b>NBAP</b>	Node B Application Part
		<b>NBMA</b>	Non-Broadcast, Multi-Access

## Abbreviations

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<b>NDC</b>	National Destination Code	<b>OAM&amp;P</b>	Operations, Administration, Maintenance and Provisioning
<b>NDIS</b>	Network Driver Interface Specification	<b>P2P-CDV</b>	Peak-to-Peak Cell Delay Variation
<b>NE</b>	Network Element/Network Entity	<b>PAD</b>	Padding
<b>NHC</b>	NHRP Client	<b>PARIS</b>	Packetized Automated Routing Integrated System
<b>NHRP</b>	Next Hop Resolution Protocol	<b>PBX</b>	Private Branch Exchanges
<b>NHS</b>	Next Hop Server	<b>PC</b>	Personal Computer
<b>NI</b>	No Increase	<b>PCM</b>	Pulse Code Modulation
<b>NID</b>	Network Interface Device	<b>PCR</b>	Peak Cell Rate
<b>N-ISDN</b>	Narrowband ISDN	<b>PDA</b>	Personal Digital Assistant
<b>NM</b>	Network Management	<b>PDH</b>	Plesiochronous Digital Hierarchy
<b>NMS</b>	Network Management System	<b>PDU</b>	Protocol Data Unit
<b>NNI</b>	Network-Node Interface/Network-Network Interface	<b>PG</b>	Peer Group
<b>NPC</b>	Network Parameter Control	<b>PGID</b>	Peer Group Identifier
<b>NR</b>	Network Operator	<b>PGL</b>	Peer Group Leader
<b>nrt-VBR</b>	Non-real-time VBR	<b>PHY</b>	Physical Layer
<b>NSAP</b>	Network Service Access Point	<b>PID</b>	Protocol Identifier
<b>NT</b>	Network Termination/Non-Transparent	<b>PIM</b>	Parallel Iterative Matching
<b>N-UNI</b>	Network side of UNI	<b>PLCP</b>	Physical Layer Convergence Protocol
<b>OAM</b>	Operations and Maintenance/Operation, Administration and Management	<b>PLL</b>	Phase Locked Loop
<b>OC-x</b>	Optical Carrier level 'x' (e.g. OC-3)	<b>PLMN</b>	Public Land Mobile Network
<b>ODI</b>	Open Data-link Interface	<b>PLP</b>	Packet Layer Protocol
<b>OOF</b>	Out of Frame	<b>PMD</b>	Physical Medium-Dependent
<b>OS</b>	Operations Systems	<b>PNNI</b>	Private Network Node Interface
<b>OSAID</b>	Originating Signalling Association Identifier	<b>POH</b>	Path Overhead
<b>OSF</b>	Offset Start Field	<b>POI</b>	Path Overhead Identifier
<b>OSI</b>	Open Systems Interconnection	<b>POTS</b>	Plain Old Telephone System
<b>OSI-RM</b>	OSI Reference Model	<b>PPD</b>	Partial Packet Discard
<b>OSPF</b>	Open Shortest Path First	<b>PPP</b>	Point-to-Point Protocol
<b>OUI</b>	Organizationally Unique Identifier	<b>PRI</b>	Primary Rate Interface
		<b>PS</b>	Packet Switched
		<b>PSTN</b>	Public Switched Telephone Network

<b>PT</b>	Payload Type	<b>SAID</b>	Signalling Association Identifier
<b>PTI</b>	Payload Type Indicator/Identifier	<b>SAP</b>	Service Access Point
<b>PTSE</b>	PNNI Topology State Element	<b>SAPI</b>	Service Access Point Identifier
<b>PTSP</b>	PNNI Topology State Packet	<b>SAR</b>	Segmentation and Reassembly
<b>PVC</b>	Permanent Virtual Circuit/ Connection	<b>SCCP</b>	Signalling Connection Control Past
<b>QoS</b>	Quality of Service	<b>SCR</b>	Sustainable Cell Rate
<b>R&amp;D</b>	Research and Development	<b>SCTP</b>	Stream Control Transmission Protocol
<b>RAI</b>	Remote Alarm Indication	<b>SDH</b>	Synchronous Digital Hierarchy
<b>RAM</b>	Random Access Memory	<b>SDSL</b>	Symmetric DSL
<b>RAN</b>	Radio Access Network	<b>SDT</b>	Structured Data Transfer
<b>RANAP</b>	Radio Access Network Application Part	<b>SDU</b>	Service Data Unit
<b>RCC</b>	Routing Control Channel	<b>SEAL</b>	Simple and Efficient Adaptation Layer
<b>RDF</b>	Rate Decrease Factor	<b>SECBC</b>	Severely Errored Cell Block Count
<b>RDI</b>	Remote Defect Indication	<b>SECBR</b>	Severely Errored Cell Block Ratio
<b>RED</b>	Random Early Discard	<b>SEL</b>	Selector
<b>RFC</b>	Request for Comments	<b>SF</b>	Superframe
<b>RID</b>	Rate Increment Factor	<b>SGSN</b>	Serving GPRS Support Node
<b>RIF</b>	Rate Increase Factor	<b>SHA1</b>	Secure Hash Algorithm 1
<b>RIP</b>	Routing Information Protocol	<b>SLA</b>	Service Level Agreement
<b>RM</b>	Resource Management	<b>SMDS</b>	Switched Multi-megabit Data Service
<b>RMCSN</b>	Reported Monitoring Cell Sequence Number	<b>SME</b>	Security Message Exchange
<b>RNC</b>	Radio Network Controller	<b>SN</b>	Subscriber Number/Sequence Number
<b>RNS</b>	Radio Network Subsystem	<b>SNAP</b>	Sub-Network Attachment Point
<b>RSA</b>	Rivest, Shamir and Adleman	<b>SNMP</b>	Simple Network Management Protocol
<b>RSC</b>	Regional Switching Center	<b>SNP</b>	Sequence Number Protection
<b>RSN</b>	Receive Sequence Numbers	<b>SOHO</b>	Small Office/Home Office
<b>RSVP</b>	Resource Reservation Protocol	<b>SONET</b>	Synchronous Optical Network
<b>RTP</b>	Real Time Protocol	<b>SPE</b>	Synchronous Payload Envelope
<b>rt-VBR</b>	Real-time VBR	<b>SRTS</b>	Synchronous Residual Time Stamp
<b>SA</b>	Security Association/Security Agent	<b>SS</b>	Supplementary Service
<b>SAAL</b>	Signalling ATM Adaptation Layer	<b>SS7</b>	Signalling System No. 7

## Abbreviations

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<b>SSCF</b>	Service-Specific Co-ordination Function	<b>TS</b>	Technical Specification
<b>SSCF-NNI</b>	Service-Specific Co-ordination Function for NNI	<b>UBR</b>	Unspecified Bit Rate
<b>SSCF-UNI</b>	Service-Specific Co-ordination Function for UNI	<b>UDP</b>	User Datagram Protocol
<b>SSCOP</b>	Service-Specific Connection-Oriented Part	<b>UE</b>	User Equipment
<b>SSCS</b>	Service-Specific Convergence Sublayer	<b>UMTS</b>	Universal Mobile Telecommunications System
<b>SSM</b>	Single segment message	<b>UNI</b>	User-Network Interface
<b>SSN</b>	Send Sequence Numbers	<b>UP</b>	User Plane
<b>ST</b>	Segment Type	<b>UPC</b>	Usage Parameter Control
<b>STC</b>	Signalling Transport Converter	<b>USIM</b>	Universal Subscriber Identity Module
<b>STDM</b>	Statistical Time Division Multiplexing	<b>UTOPIA</b>	Universal Test and Physical Interface for ATM
<b>STM</b>	Synchronous Transfer Mode	<b>UTP</b>	Unshielded Twisted Pair
<b>STS</b>	Synchronous Transport Signal	<b>UTRAN</b>	Universal Terrestrial Radio Access Network
<b>SVC</b>	Switched Virtual Circuit/Connection	<b>UU</b>	User-to-User
<b>SW</b>	Software	<b>UUI</b>	User-to-User Indication
<b>TAT</b>	Theoretical Arrival Time	<b>U-UNI</b>	User Side of UNI
<b>TAXI</b>	Transparent Asynchronous Transceiver Interface	<b>UUS</b>	User-to-User Signalling
<b>TBE</b>	Transient Buffer Exposure	<b>VBR</b>	Variable Bit Rate
<b>TC</b>	Transmission Convergence	<b>VC</b>	Virtual Circuit/Virtual Channel
<b>TCP</b>	Transmission Control Protocol	<b>VCC</b>	Virtual Channel Connection
<b>TCR</b>	Tagged Cell Rate	<b>VCI</b>	Virtual Circuit Identifier/ Virtual Channel Identifier
<b>TDM</b>	Time Division Multiplexing	<b>VCIP</b>	VCI Present
<b>TDMA</b>	Time Division Multiple Access	<b>VCL</b>	Virtual Channel Link
<b>TE-2</b>	Terminal Equipment 2	<b>VDSL</b>	Very-High-Rate DSL
<b>TIA</b>	Telecommunication Industries Association	<b>VF</b>	Variance Factor
<b>TLV</b>	Type-Length-Value	<b>VLR</b>	Visitor Location Register
<b>TMN</b>	Telecommunication Management Network	<b>VLSI</b>	Very Large Scale Integration
<b>TR</b>	Trial Trace	<b>VoATM</b>	Voice over ATM
		<b>VoDSL</b>	Voice over DSL
		<b>VoIP</b>	Voice over IP
		<b>VP</b>	Virtual Path



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*Abbreviations*

<b>VPC</b>	Virtual Path Connection	<b>WAN</b>	Wide Area Network
<b>VPI</b>	Virtual Path Identifier	<b>WCDMA</b>	Wideband Code Division Multiple Access
<b>VPL</b>	Virtual Path Link	<b>WDM</b>	Wavelength Division Multiplexing
<b>VPN</b>	Virtual Private Network	<b>WWW</b>	World Wide Web
<b>VTOA</b>	Voice and Telephony Over ATM		